

**C. In the Claims**

Please cancel claims 2 to 69 without prejudice.

Please amend claim 1 to read as follows:

1. (Amended) A method for inhibiting production of A $\beta$ 11-40/42 peptide fragments, comprising contacting a sample or cell containing a beta-site APP-cleaving enzyme 1 (BACE1) and an amyloid precursor protein (APP) *in vitro* with an antibody specific for BACE1, whereby the antibody inhibits BACE1 cleavage of APP, thereby inhibiting the production of A $\beta$ 11-40/42 peptide fragments.

Please add the following new claims:

--70. The method of claim 1, wherein the antibody is a polyclonal antibody.

71. The method of claim 1, wherein the antibody is a monoclonal antibody.

72. The method of claim 1, wherein the sample comprises a tissue sample, a cellular sample, or a biological fluid.

73. The method of claim 72, wherein the sample comprises blood, serum, or cerebrospinal fluid.

74. The method of claim 72, wherein the sample comprises central nervous system tissue.

75. The method of claim 72, wherein the sample is from a subject having or at risk of having Alzheimer's disease.--